



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

Phoenix Architectural Products, Inc.  
3075 Jonquil Drive, SE  
Smyrna, GA 30080

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: "Sure guard 2004" Window Security Barrier Systems

**APPROVAL DOCUMENT:** Drawing No. SG04-2012, titled "Sure Guard 2004 / Window Security Barrier System", sheets 1 through 10 of 10, prepared by V. M. Engineering, Inc., dated April 22, 2015, signed and sealed by Morgan Villanueva, P.E., on April 22, 2015, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 12-1012.01 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, & E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, M.S., P.E.



*Helmy A. Makar*  
05/28/2015

NOA No. 15-0427.13  
Expiration Date: 06/10/2019  
Approval Date: 05/28/2015  
Page 1

**Phoenix Architectural Products, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0423.01**

**A. DRAWINGS**

1. *Drawing No. S100-01, titled " Sure Guard 2004 / Window Security Barrier Systems ", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated March 25, 2004, signed and sealed by Walter A. Tillit Jr., P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of 304 Stainless Steel Wire Mesh window security barrier system, prepared by Hurricane Test Laboratory, LLC, Report No. 0340-0310-04, dated April 7, 2004, signed and sealed by Vinu J. Abraham, P.E.*

**C. CALCULATIONS**

1. *Anchor calculations dated May 17, 2004, 13 pages, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *Mill Certified Inspection Report issued by Screen Technology Group, Inc., dated April 8, 2004, with chemical analysis and mechanical properties for 304 Stainless Steel Wire Mesh.*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-0921.04**

**A. DRAWINGS**

1. *Drawing No. 05-282, titled " Sure Guard 2004 / Window Security Barrier Systems", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated August 15, 2005, signed and sealed by Walter A. Tillit Jr., P.E.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

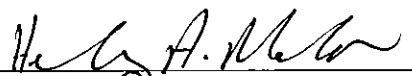
1. *Anchor calculations dated September 16, 2005, 7 pages, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*



Henry A. Makar, M.S., P.E.  
Product Control Unit Supervisor  
NOA No. 15-0427.13  
Expiration Date: 06/10/2019  
Approval Date: 05/28/2015

**Phoenix Architectural Products, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0408.04**

**A. DRAWINGS**

1. *Drawing No. 09-083, titled " Sure Guard 2004 / Window Security Barrier Systems", sheets 1 through 6 of 6, prepared by Tilteco, Inc., dated June 02, 2009, signed and sealed by Walter A. Tillit Jr., P.E., on June 02, 2009.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *Anchor calculations dated June 02, 2009, 11 pages, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0608.01**

**A. DRAWINGS**

1. *Drawing No. SG04-12, titled "Sure Guard 2004 / Window Security Barrier System", sheets 1 through 6 of 6, prepared by V. M. Engineering, Inc., dated August 27, 2012, signed and sealed by Morgan Villanueva, P.E., on August 29, 2012.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

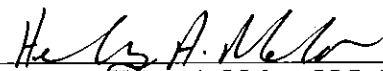
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. OTHERS**

1. *FBC 2010 Edition compliance letter, prepared by V. M. Engineering, Inc., dated June 11, 2012, signed and sealed by Morgan Villanueva, P.E.*



Helmy A. Makar, M.S., P.E.  
Product Control Unit Supervisor  
NOA No. 15-0427.13  
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**Phoenix Architectural Products, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-1012.01**

**A. DRAWINGS**

1. *Drawing No. SG04-2012, titled "Sure Guard 2004 / Window Security Barrier System", sheets 1 through 10 of 10, prepared by V. M. Engineering, Inc., dated October 05, 2012, signed and sealed by Morgan Villanueva, P.E., on January 15, 2013.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of 304 Stainless Steel Wire Mesh window security barrier system, prepared by Fenestration Testing Laboratory, Inc., Report No. 6350, dated January 21, 2011, signed and sealed by Marlin D. Brinson, P.E.*

**C. CALCULATIONS**

1. *Screen and Anchor calculations dated 09/26/2012, 33 pages, prepared by V. M. Engineering, Inc., signed and sealed by Morgan Villanueva, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. OTHERS**

1. *FBC 2010 Edition compliance letter, prepared by V. M. Engineering, Inc., dated 10/12/2012, signed and sealed by Morgan Villanueva, P.E.*

**5. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. SG04-2012, titled "Sure Guard 2004 / Window Security Barrier System", sheets 1 through 10 of 10, prepared by V. M. Engineering, Inc., dated April 22, 2015, signed and sealed by Morgan Villanueva, P.E., on April 22, 2015.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

  
Helmy A. Makar, M.S., P.E.

Product Control Unit Supervisor

NOA No. 15-0427.13

Expiration Date: 06/10/2019

Approval Date: 05/28/2015

**Phoenix Architectural Products, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**D. QUALITY ASSURANCE**

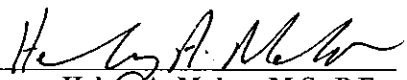
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*

**F. OTHERS**

1. *FBC 2014 Edition compliance letter, prepared by V. M. Engineering, Inc., dated May 10, 2015, signed and sealed by Morgan Villanueva, P.E.*

  
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Helmy A. Makar, M.S., P.E.  
Product Control Unit Supervisor  
NOA No. 15-0427.13  
Expiration Date: 06/10/2019  
Approval Date: 05/28/2015

**GENERAL NOTES FOR NOA SCREEN**

1. THIS SHUTTER "SURE GUARD 2004" HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1609 OF THE FLORIDA BUILDING CODE EDITION 2014, AS PER TAS 201-94, TAS 202-94 & TAS 203-94 OF THE TEST PROTOCOLS FOR HIGH-VELOCITY HURRICANES ZONES, AND AS PER HTL WITH TEST REPORT No. 0340-0310-04 AND AS PER FTL WITH TEST REPORT No. 6350.

THE DESIGN LOADS COMPLY WITH SECTION 1620 OF THE FLORIDA BUILDING CODE EDITION 2014. THE WIND PRESSURES SHOWN ON SHEET (4 OF 10) IN THIS DOCUMENTS ARE AS PER FBC 2014 EDITION (ALLOWABLE SERVICE DESIGN), TO OBTAIN THE EQUIVALENT ULTIMATE WIND PRESSURES, DIVIDE THE WIND PRESSURES SHOWN IN THE TABLES ON SHEET (4 OF 10) OF THIS DOCUMENT BY 0.6 FACTOR (ULTIMATE FACTOR DESIGN). IN ORDER TO VERIFY THAT ANCHORS ON THIS PRODUCT APPROVAL DOCUMENTS, AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. AND IN THE LABORATORY THE TEST LOAD WAS 50% MORE OF DESIGN LOAD.

THE "SURE GUARD 2004" IS ADEQUATE FOR IMPACT AND FATIGUE RESISTANCE AS SHOWN IN THE TEST RESULTS FROM LABORATORY. THE "SURE GUARD 2004" MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z.)"

2. ALL COMPONENTS SHALL BE AS PER BILL OF MATERIALS AS SHOWN ON SHEET 3.

3. FOR ANCHORS INSTALLATION AND SPACING DETAILS REFER TO SHEETS 5 THROUGH 10.

4. MAX DESIGN PRESSURE (ALLOWABLE):

- A. FOR BARRIER FRAME SIZE OF 44" X 68" = +73 psf, -134 psf (ALLOWABLE)
- B. FOR BARRIER FRAME SIZE OF 52 1/4" X 75 3/4" = +107 psf, -107 psf (ALLOWABLE)

5. SELF DRILLING SCREWS SHALL BE ASTM A510-03, ZINC PLATED AS PER ASTM B-633 WITH MIN. TENSILE STRENGTH OF 100 KSI.

6. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS ON SHEETS 3, 5, 6, 7, 8, 9 & 10. ANCHOR EMBEDMENT AND EDGE DISTANCE TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

7. A LABEL SHALL BE PLACED FOR EVERY OPENING BY THE SCREEN SHUTTER MANUFACTURER AND SHALL BE EXPOSED ON THE SURFACE OF THE FRAME LABEL SHALL READ:

PHOENIX  
ARCHITECTURAL PRODUCT, INC.  
3075 JONQUIL DRIVE SE, SMYRNA, GA 30080  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

8. CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS OF THE OPENINGS WHERE SCREEN SHUTTER WILL BE INSTALLED TO INSURE ADEQUATE SUBSTRATE.

9. THE INSTALLATION OF THIS "SURE GUARD 2004" HIGH VELOCITY SHUTTER SYSTEM SHALL COMPLY WITH THE SPECIFICATIONS INDICATED IN THIS DRAWINGS PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

10. THIS PRODUCT APPROVAL DOCUMENTS WILL BE VALID ONLY WHEN IT MEETS THE FOLLOWING TERMS:  
A. PLANS SHALL BE SIGNED AND SEALED BY THE ENGINEER OF RECORD.  
B. NO MODIFICATIONS AND/OR ALTERATIONS MAY BE MADE BY ANY MEANS.

11. THIS PRODUCT APPROVAL DOCUMENTS WAS NOT PREPARED FOR A SPECIFIC SITE.

12. SCREEN SHUTTER DETAILS:

A. FRAME SHALL BE EXTRUDED ALUMINUM, CORNERS ARE MITERED, BUTTED AND WELDED INCLUDING MID HEIGHT SASH CONNECTION TO JAMBS WELDING AS PER AMERICAN WELDING SOCIETY D1.2 LATEST EDITION.

B. EACH PANEL IS MADE UP OF AN EXTRUDED 6063-T6 ALUM. FRAME MITER AND JOINED AT THE CORNERS WITH ALUMINUM PLATE SP-7 (COMPONENT 17) AS SHOWN ON SHEET 2

C. THE SCREEN MATERIAL IS HIGH-TENSILE 304 STAINLESS STEEL WITH TENSILE STRENGTH BEFORE WEAVING OF 95.3 KSI AND 39% ELONGATION, PER ASTM A 2016.

D. FOR FASTENING OF SCREEN REFER TO NOTE 1 & 2 OF SHEET 3, MINIMUM EDGE DISTANCE PER FASTENING SCREW/EDGE OF SCREEN IS 1/2" FROM CENTER OF HOLES.

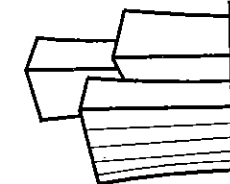
E. THE OPERABLE PANELS ARE SECURED WITH A CONTINUOUS LATCH PAPI-8 (COMPONENT 11).

**PHOENIX**  
ARCHITECTURAL PRODUCTS, INC.

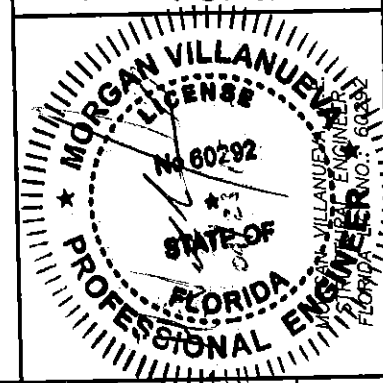
HURRICANE BARRIERS, ALUMINUM WINDOWS & DOORS  
3075 JONQUIL Drive, S.E., Smyrna, GA 30080  
TEL 770.803.6380 FAX 770.803.6388  
www.phoenixwindows.com

PRODUCT:

**SURE GUARD 2004**  
WINDOW SECURITY BARRIER SYSTEM



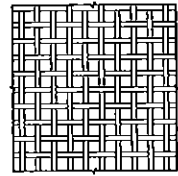
**V.M.**  
Engineering, Inc.  
C. of A. No. 27633  
11278 S.W. 153rd Place  
MIAMI, FLORIDA 33196  
TEL: 786-281-6968  
TEL: 305-383-5896



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 15-0427.13  
Expiration Date 06/10/2019  
By *[Signature]*  
Miami Dade Product Control

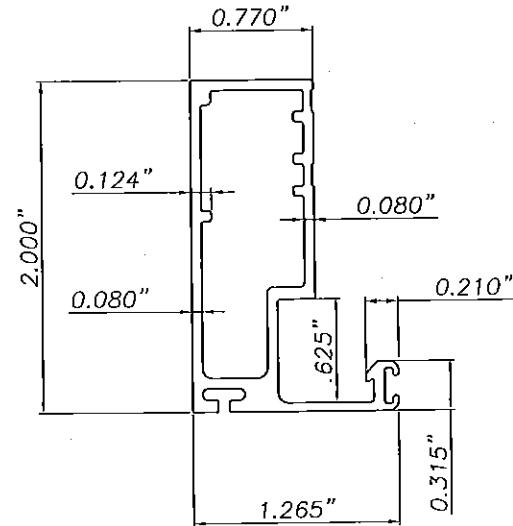
MIAMI-DADE COUNTY

REV. No	DESCRIPTION	DATE
1	52.25"x75.75" NEW FRAME SIZE	10-5-12
2	RENEWAL AS PER FCB 2014	4-22-15
3	-	-
SCALE: AS SHOWN		
DATE: 04-22-15		
F.B.C. (High Velocity Hurricane Zone)		
DWG No: SG04-2012		
SHEET 1 OF 10		

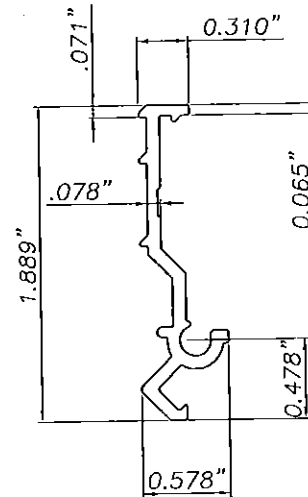


Wire Diameter = 0.028"  
Mesh Count = 12X12 per in<sup>2</sup>

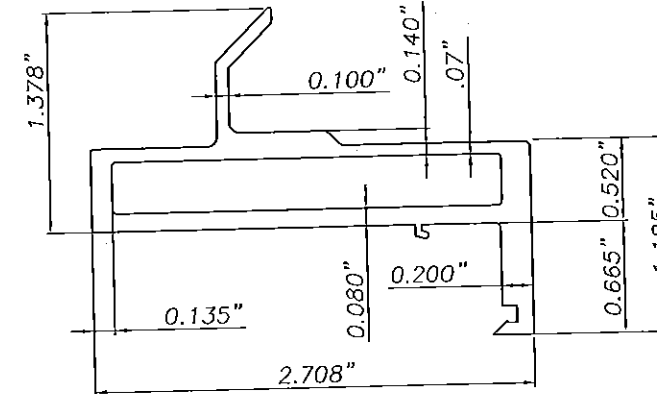
① Stainless Steel Wire-Mesh



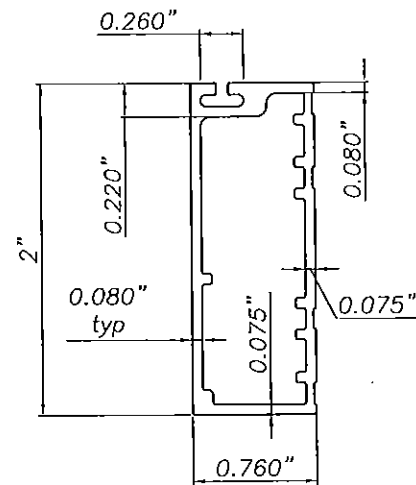
② PAPI-2



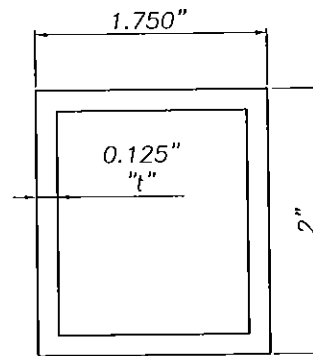
④ PAPI-9



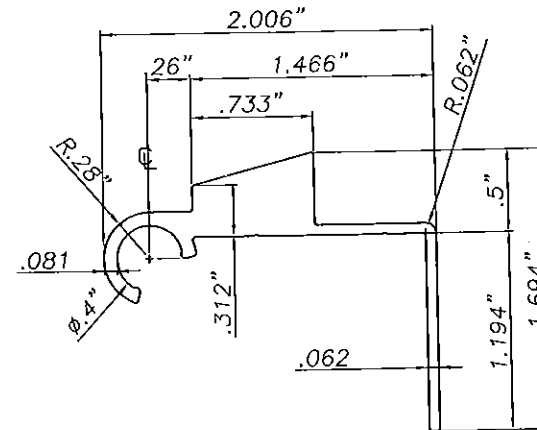
⑥ PAPI-10



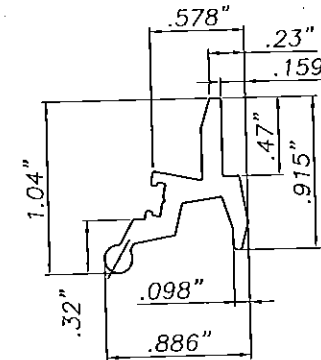
⑦ PAPI-6



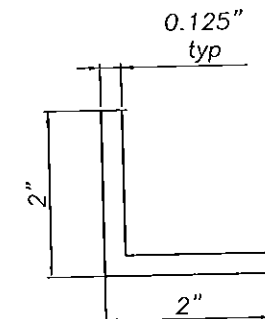
⑧ EXT. ALUM. TUBE



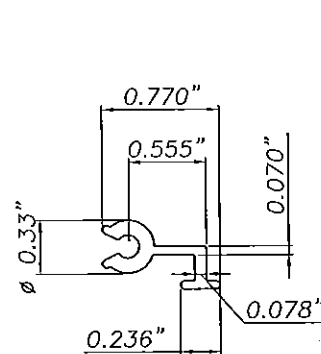
⑩ PAPI-4



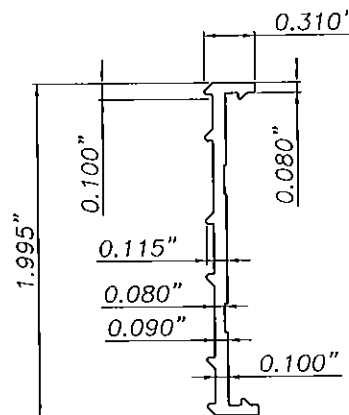
⑪ PAPI-8  
NO EXPOSED SURFACES



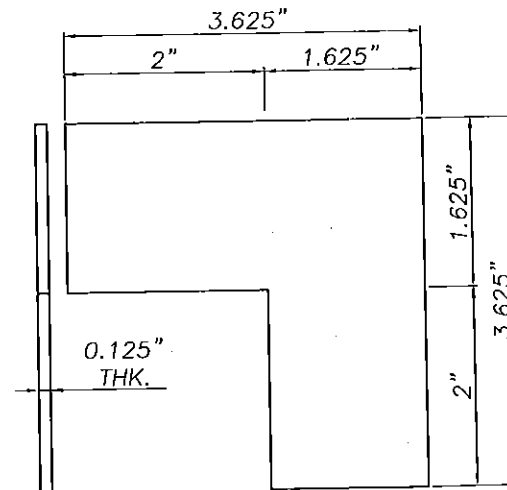
⑬ L BAR



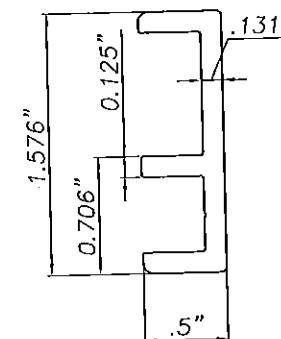
⑮ PAPI-3



⑮ PAPI-7



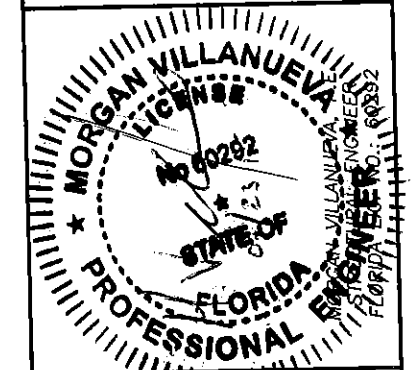
⑰ SP-7



⑱ PAPI-5

PRODUCT REVISED  
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By *[Signature]*  
Miami Dade Product Control

MIAMI-DADE COUNTY



REV. No	DESCRIPTION	DATE
1	52.25"x75.75" NEW FRAME SIZE	10-5-12
2	RENEWAL AS PER FCB 2014	4-22-15
3	-	-

SCALE: AS SHOWN  
DATE: 04-22-15

F.B.C.  
(High Velocity Hurricane Zone)

DWG No: SG04-2012

SHEET 2 OF 10

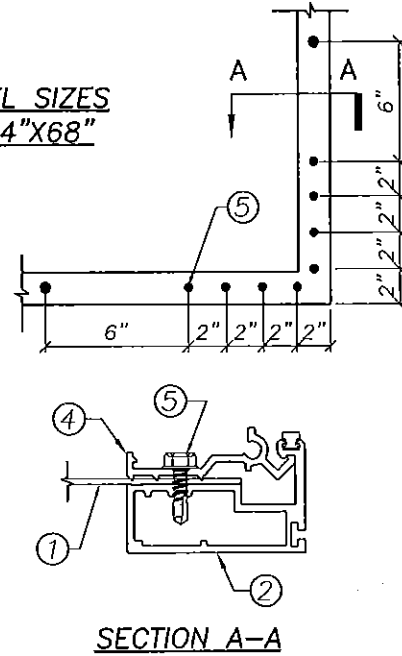
**PHOENIX**  
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PRODUCT:  
**SURE GUARD 2004**  
WINDOW SECURITY BARRIER SYSTEM

**V.M. Engineering, Inc.**  
C. of A. No. 27633  
11278 S.W. 153rd Place  
MIAMI, FLORIDA 33196  
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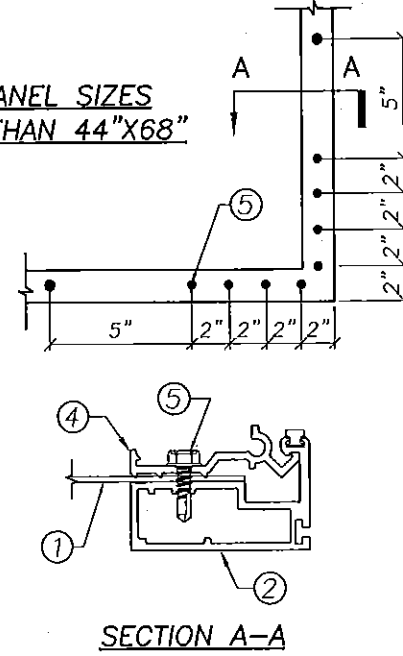
# METAL TO METAL SCREWS NOTES

FOR PANEL SIZES  
UP TO 44"X68"



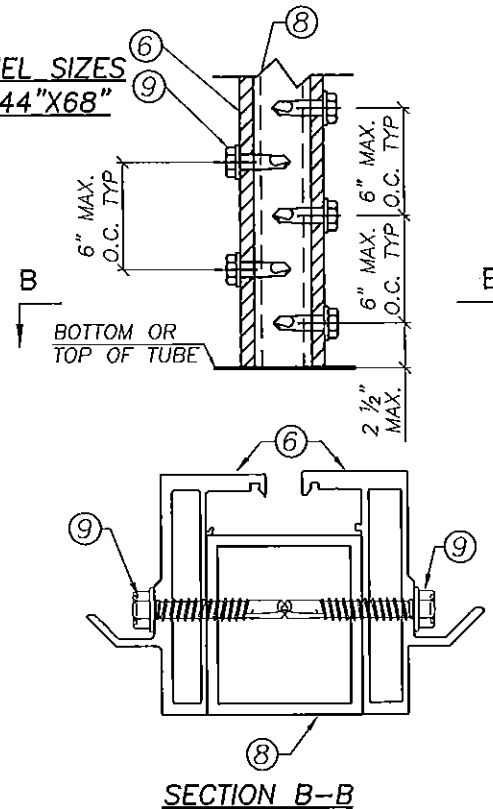
NOTE 1:  
FOUR SCREWS IN EACH CORNER LEG 2" MAX. FROM EA. END AND SPACED 2" MAX. O.C., THEN CONTINUOUS 6" MAX. O.C.

FOR PANEL SIZES  
LARGER THAN 44"X68"



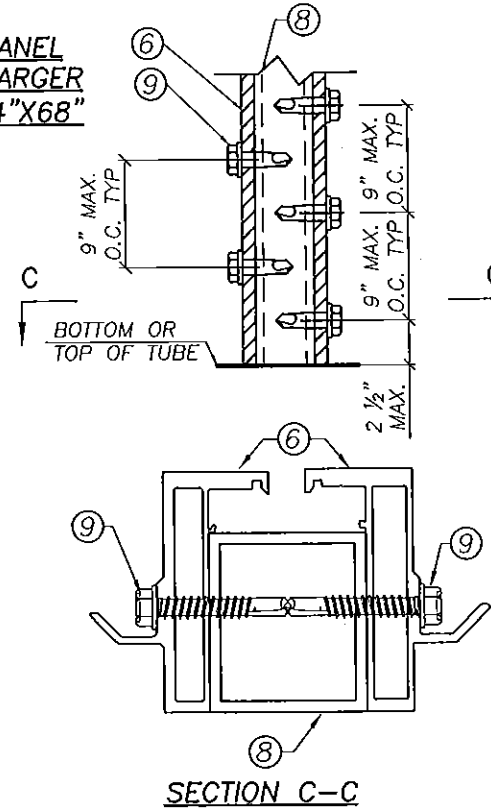
NOTE 2:  
FOUR SCREWS IN EACH CORNER LEG 2" MAX. FROM EA. END AND SPACED 2" MAX. O.C., THEN CONTINUOUS 5" MAX. O.C.

FOR PANEL SIZES  
UP TO 44"X68"



NOTE 3  
SCREWS 6" MAX O.C. STAGGERED.  
SPACED 2 1/2" MAX. FROM TOP OR BOTTOM.

FOR PANEL  
SIZES LARGER  
THAN 44"X68"



NOTE 4  
SCREWS 9" MAX. O.C. STAGGERED.  
SPACED 2 1/2" MAX. FROM TOP OR BOTTOM.

# BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL MANUFACTURER
①	Stainless Steel Wire Mesh	AISI 304 Series S.S.
②	Sash Frame PAPI-2	Alum. 6063-T6
③	Weather-strip (Hope Webbing)	Wool Pyle
④	Retainer PAPI-9	Alum. 6063-T6
⑤	#10 x 3/4" S.D.S. Hex Head Screw	ASTM A-510
⑥	Exterior Frame PAPI-10	Alum. 6063-T6
⑦	Exterior Sash PAPI-6	Alum. 6063-T6
⑧	1 3/4" x 2" x 1/8" Aluminum Tube	Alum. 6063-T6
⑨	#14 x 1 1/2" Self Drilling Screw	ASTM A-510
⑩	Female Hinge PAPI-4	Alum. 6063-T6
⑪	Latch Mechanism PAPI-8	Alum. 6063-T6
⑫	#10x 1/2" S.D.S. Hex Head Screw	ASTM A-510
⑬	2" x 2" x 1/8" Alum. Angle	Alum. 6063-T6
⑭	1/4"Ø Tapcon Anchor with 1 1/4" min. embedment into hollow concrete block & 1 3/4" min. embedment into poured concrete or concrete hollow block with field cells.	ITW BUILD EX
⑮	Male Hinge PAPI-3	Alum. 6063-T6
⑯	Interior Sash PAPI-7	Alum. 6063-T6
⑰	Corner Support SP-7	Alum. 3003-H14
⑱	Reinforcement PAPI-5	Alum. 6063-T6
⑲	#10x1" S.D.S. Hex Head Screw	ASTM A-510 ITW BUILD EX
⑳	#10x 1/2" S.D.S. Hex Head Screw	ASTM A-510 ITW BUILD EX

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PRODUCT:  
**SURE GUARD 2004**  
WINDOW SECURITY BARRIER SYSTEM

**V.M.**  
Engineering, Inc.  
C. of A. No. 27633  
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MIAMI, FLORIDA 33196  
TEL: 786-281-6968  
TEL: 305-383-5896

**MORGAN VILLANUEVA**  
LICENSED PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 00282  
2.3.19

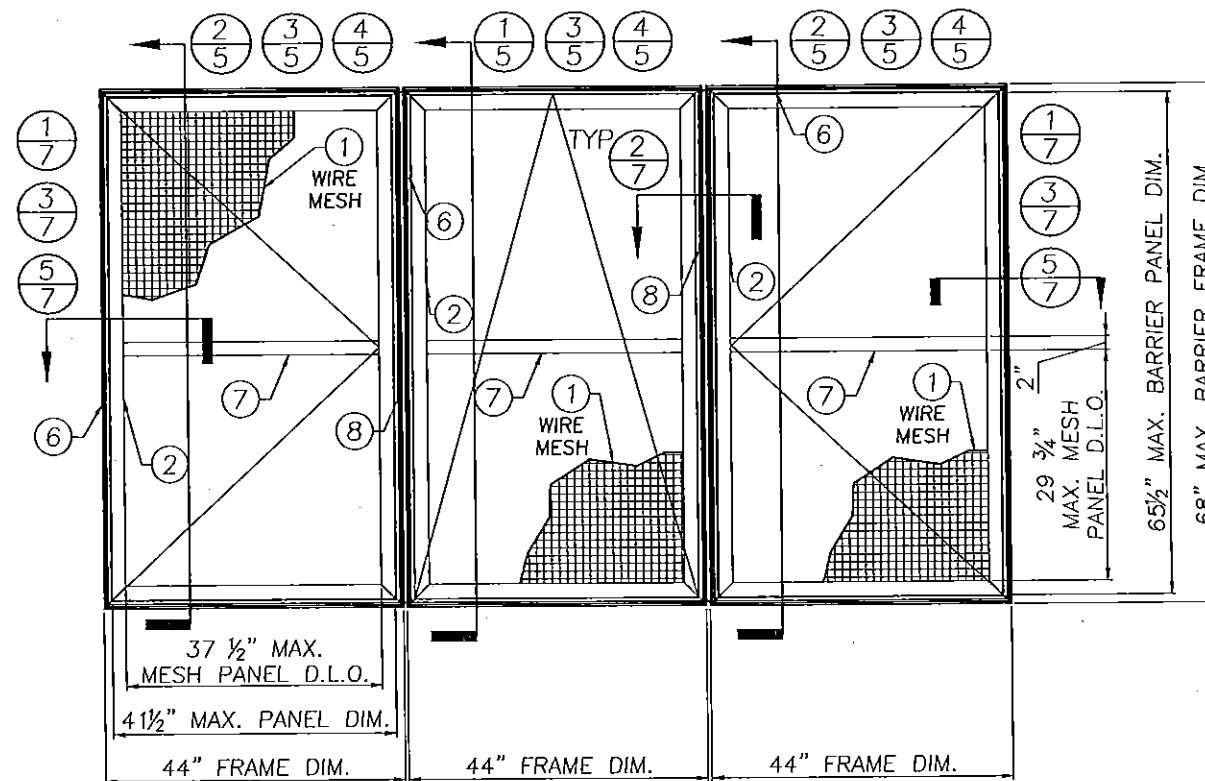
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 15-0427.13  
Expiration Date 06/10/2019  
By *H. A. M. Jr.*  
Miami Dade Product Control

MIAMI-DADE COUNTY

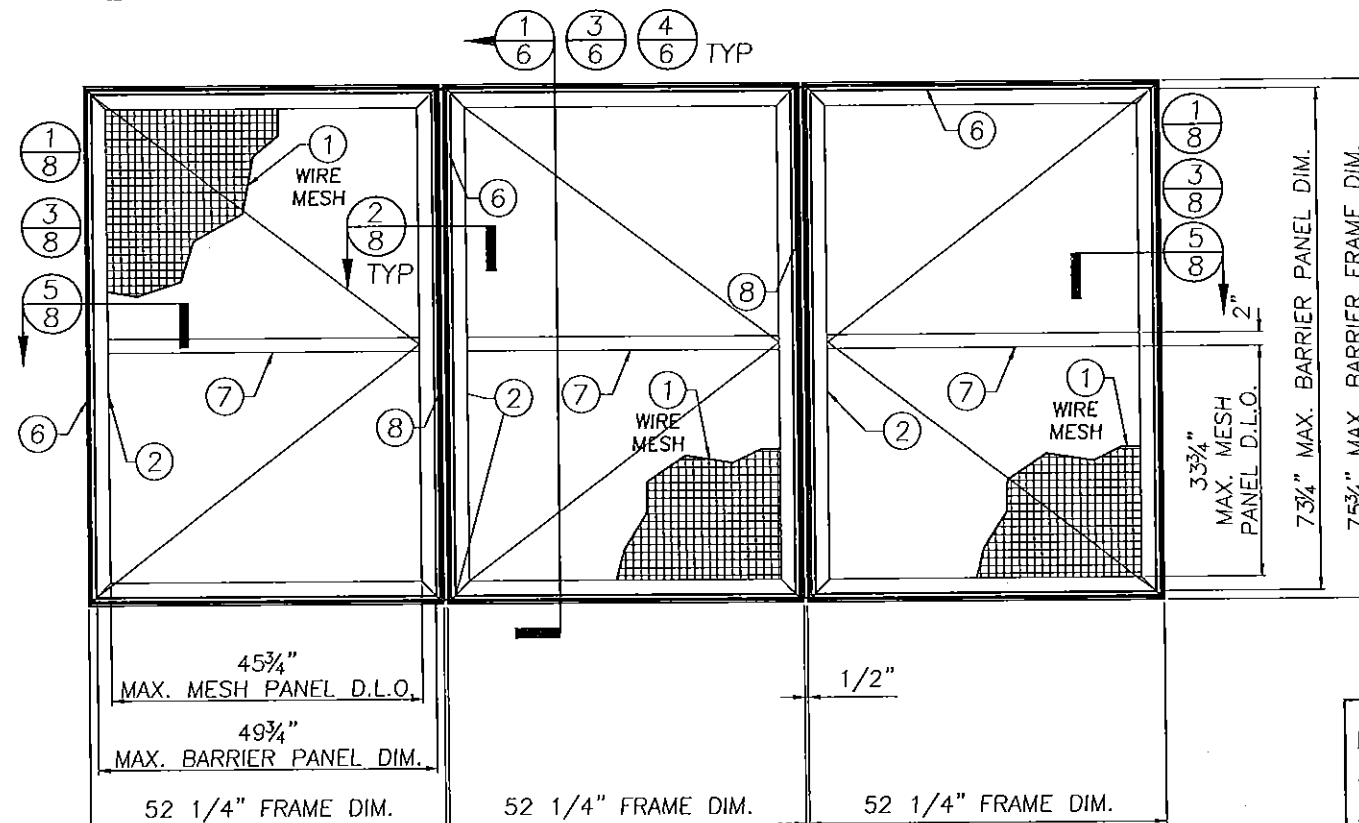
REV. No	DESCRIPTION	DATE
1	52.25"x75.75" NEW FRAME SIZE	10-5-12
2	RENEWAL AS PER FCB 2014	4-22-15
3	-	-

SCALE: AS SHOWN  
DATE: 04-22-15  
**F.B.C.**  
(High Velocity Hurricane Zone)  
DWG No: SG04-2012  
SHEET 3 OF 10

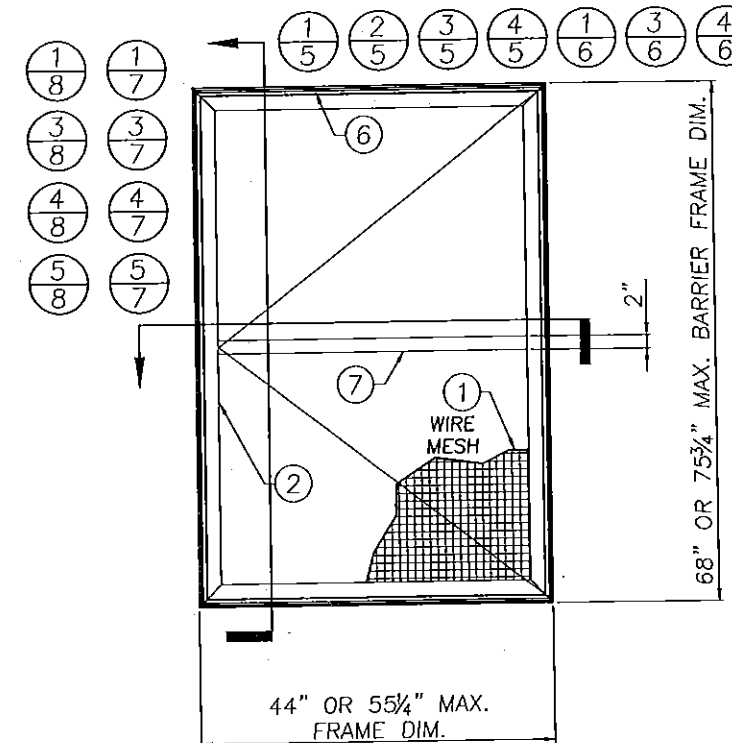




MULTIPLE PANEL ELEVATION (44"x68" MAX. BARRIER FRAME)



MULTIPLE PANEL ELEVATION (52 1/4"x75 3/4" MAX. BARRIER FRAME)



SINGLE PANEL ELEVATION  
(44"x68" MAX. BARRIER FRAME  
W/ TOP OR SIDE HINGE)  
(52 1/4"x75 3/4" MAX. BARRIER  
FRAME SIDE HINGE ONLY)

**DESIGN PRESSURE RATING:**  
FOR 44"x68" MAX. BARRIER FRAME  
POSITIVE 73 psf NEGATIVE 134 psf (ALLOWABLE)  
FOR 52 1/4"x75 3/4" MAX. BARRIER FRAME  
POSITIVE 107 psf NEGATIVE 107 psf (ALLOWABLE)  
TESTED AS PER TAS 201-94, 202-94, 203-94  
STAINLESS STEEL WIRE MESH AISI 304 SERIES S.S.

SIDE HINGE MEANS THE LATCH  
MECHANISM MUST BE AT LARGER  
SIDE OF THE FRAME

NOTE: BARRIER MAY BE USED AS  
SINGLE OR UNLIMITED NUMBER OF  
HORIZONTAL OR VERTICAL PANELS.

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By *[Signature]*  
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**PHOENIX**  
ARCHITECTURAL PRODUCTS, INC.  
HURRICANE BARRIERS, ALUMINUM WINDOWS & DOORS  
3075 JONQUIL Drive, S.E., Smyrna, GA 30080  
TEL 770.803.6380 FAX 770.803.6388  
www.phoenixwindows.com

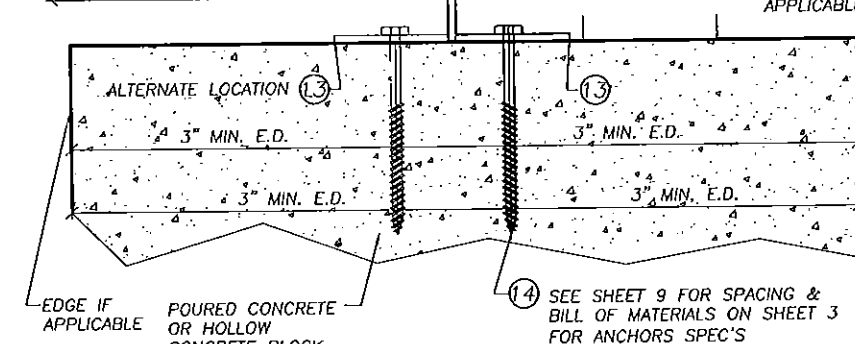
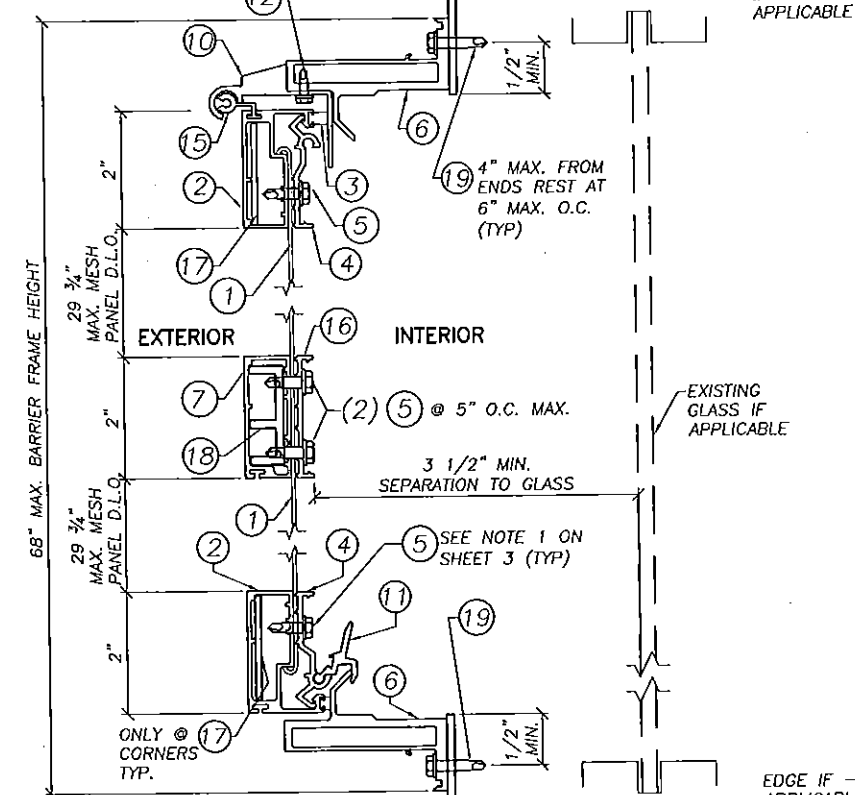
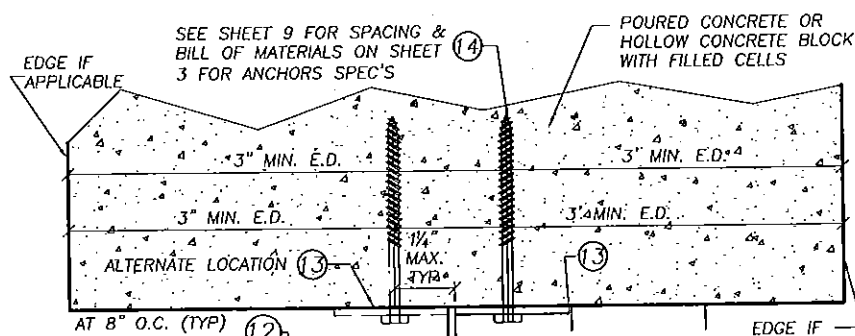
**SURE GUARD 2004**  
WINDOW SECURITY BARRIER SYSTEM

**V.M. Engineering, Inc.**  
C. of A. No. 27633  
11278 S.W. 153rd Place  
MIAMI, FLORIDA 33196  
TEL: 786-281-6968  
TEL: 305-383-5896

**MORGAN VILLANUEVA**  
Professional Engineer  
No. 90292  
State of Florida  
Professional Engineer  
Florida License No. 90292

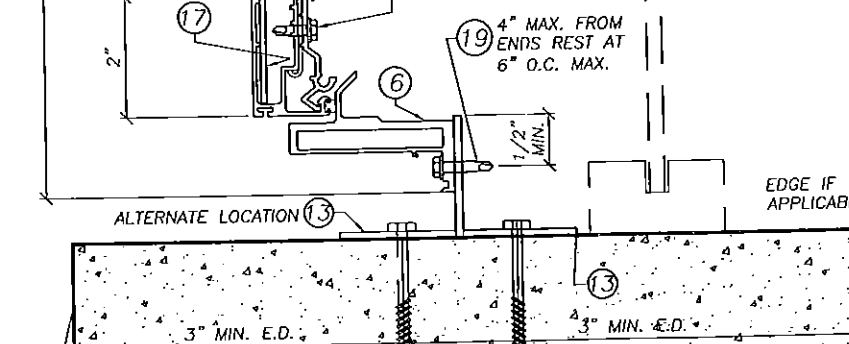
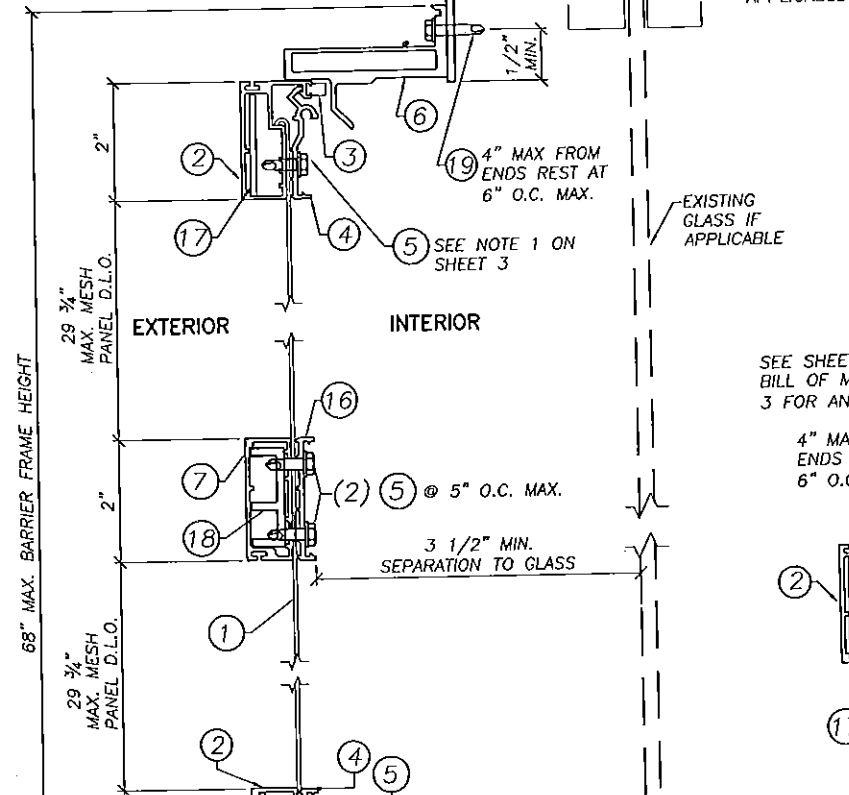
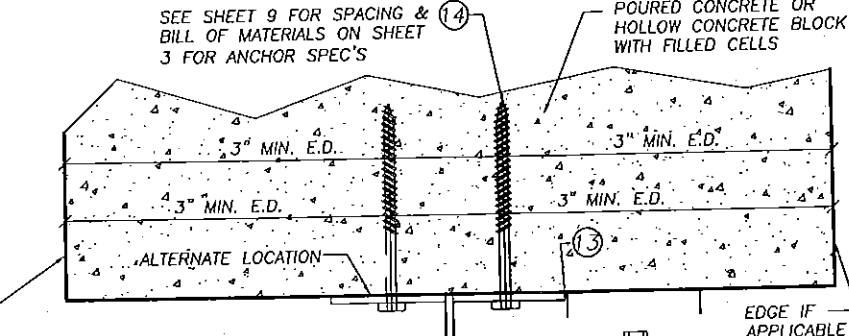
REV. No	DESCRIPTION	DATE
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3	-	-

SCALE: AS SHOWN  
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**F.B.C.**  
(High Velocity Hurricane Zone)  
DWG No: SG04-2012  
SHEET 4 OF 10



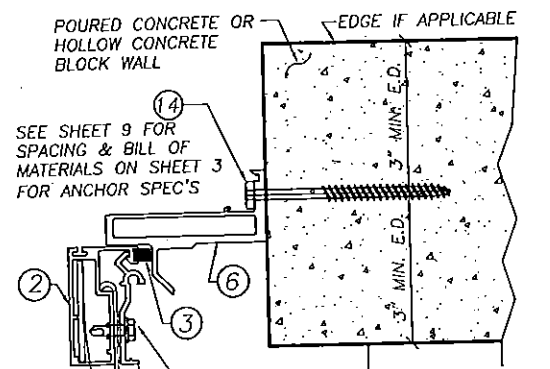
1 VERTICAL CROSS SECTION  
Top Hinge

FOR PANEL SIZES UP TO 44"x68"

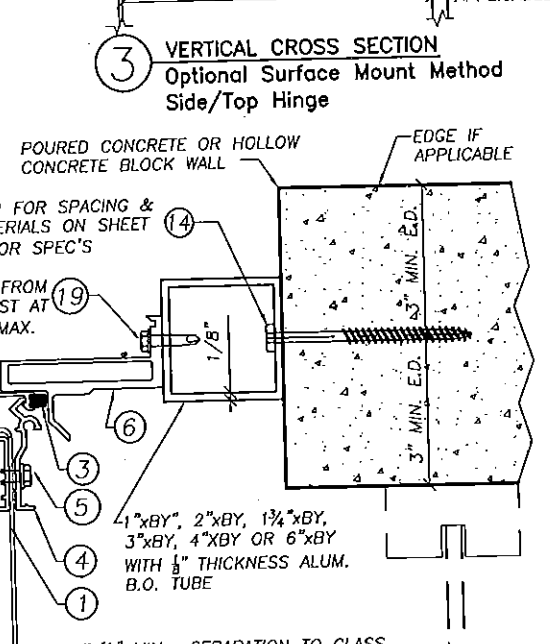


2 VERTICAL CROSS SECTION  
Side Hinge

FOR PANEL SIZES UP TO 44"x68"



3 VERTICAL CROSS SECTION  
Optional Surface Mount Method  
Side/Top Hinge



4 VERTICAL CROSS SECTION  
Optional Buildout Mount Method  
Side/Top Hinge

PRODUCT REVISED  
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Expiration Date 06/10/2019  
By *Heidi A. Miller*  
Miami Dade Product Control

MIAMI-DADE COUNTY

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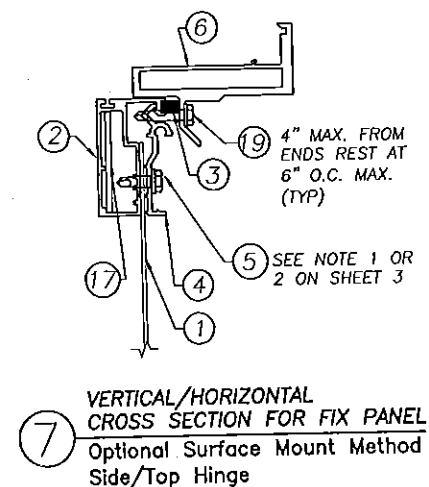
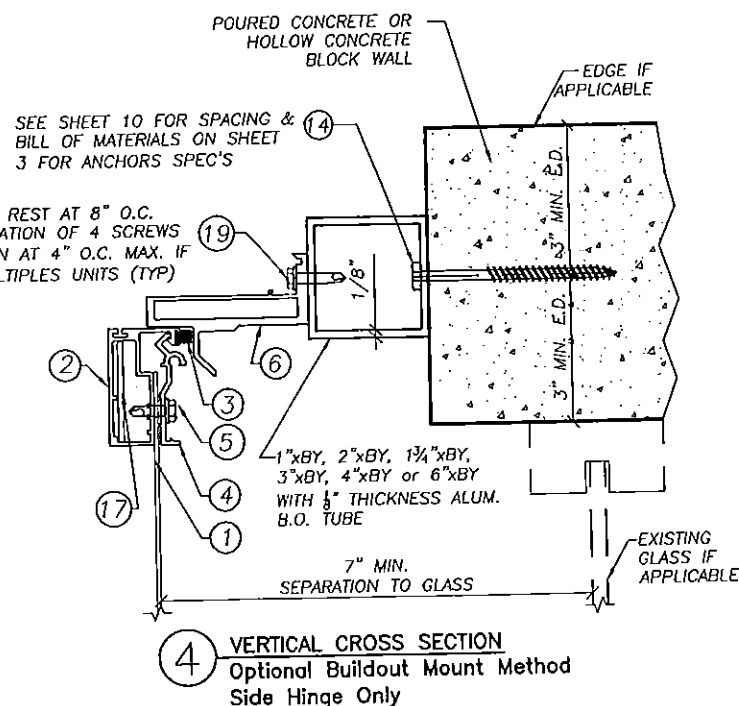
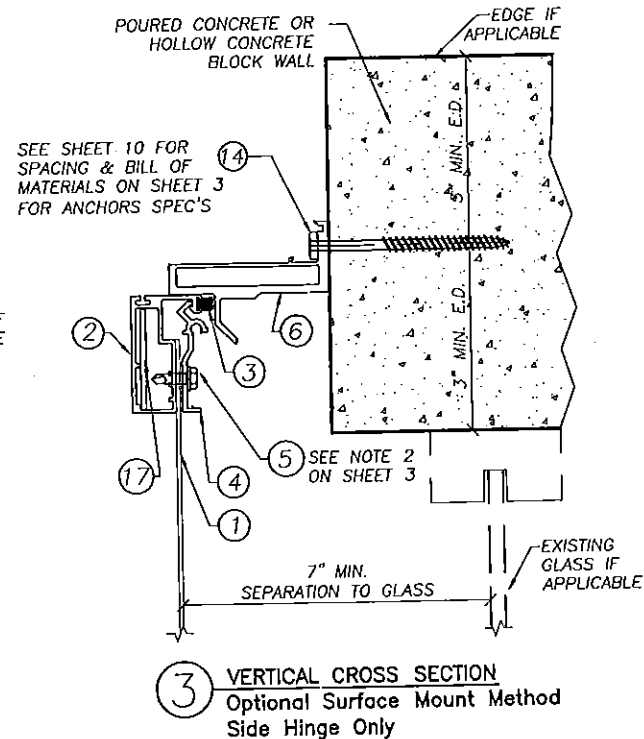
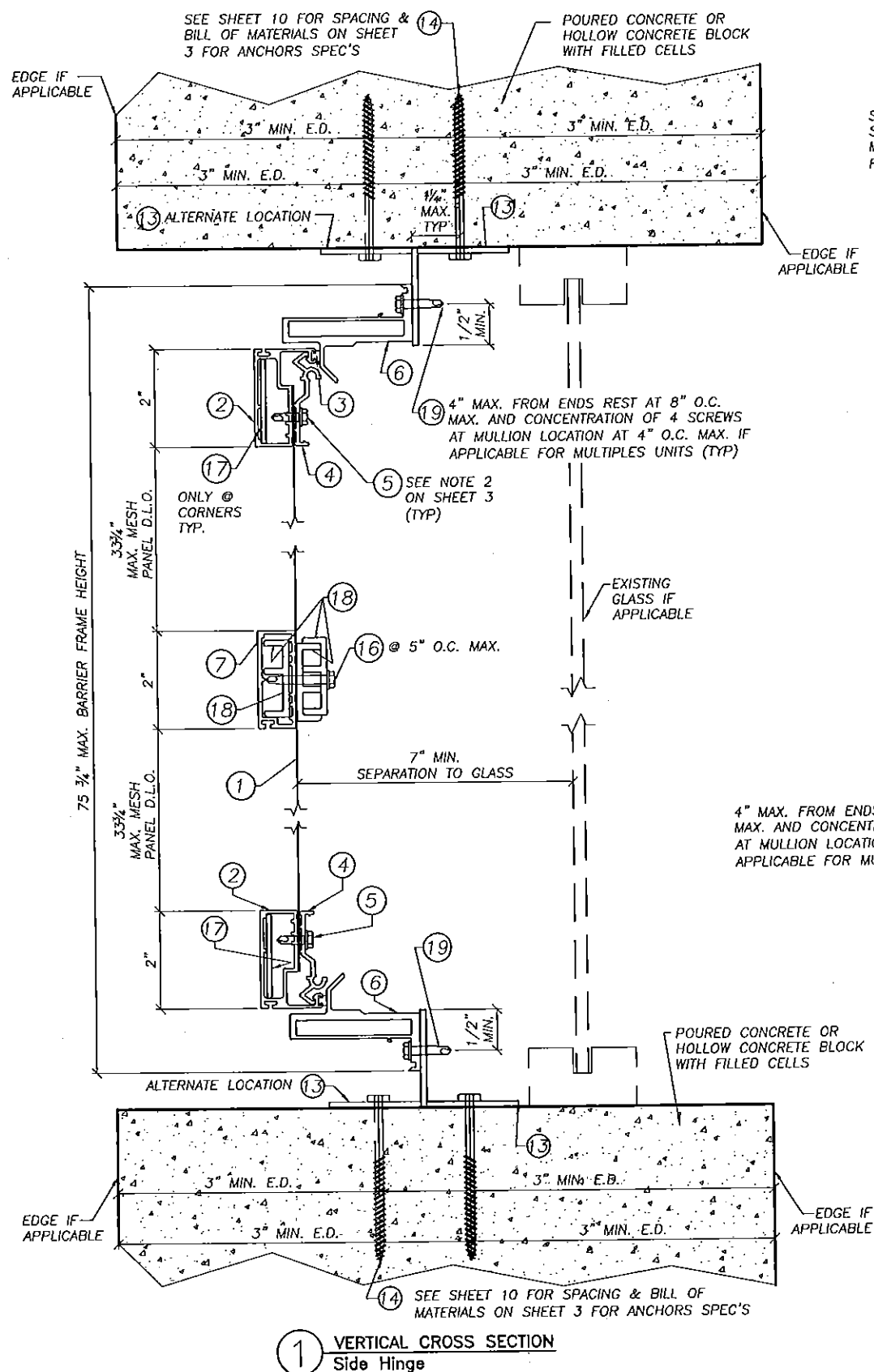
PRODUCT:  
**SURE GUARD 2004**  
WINDOW SECURITY BARRIER SYSTEM

**V.M. Engineering, Inc.**  
C. of A. No. 27633  
11278 S.W. 153rd Place  
MIAMI, FLORIDA 33196  
TEL: 786-281-6968  
TEL: 305-383-5896

**MORGAN VILLANUEVA**  
LICENSED PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 60212

REV. No	DESCRIPTION	DATE
1	52.25"x75.75" NEW FRAME SIZE	10-5-12
2	RENEWAL AS PER FCB 2014	4-22-15
3	-	-

SCALE: AS SHOWN  
DATE: 04-22-15  
**F.B.C.**  
(High Velocity Hurricane Zone)  
DWG No: **SG04-2012**  
SHEET 5 OF 10



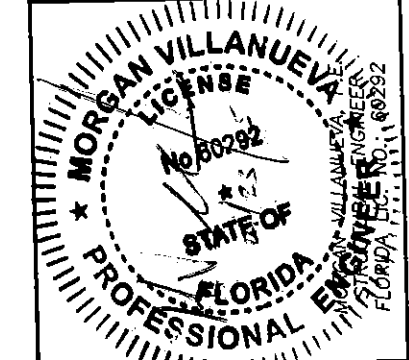
FOR PANEL SIZES LARGER THAN 44"X68"

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 15-0427.13  
Expiration Date 06/10/2019  
By *[Signature]*  
Miami Dade Product Control

MIAMI-DADE COUNTY

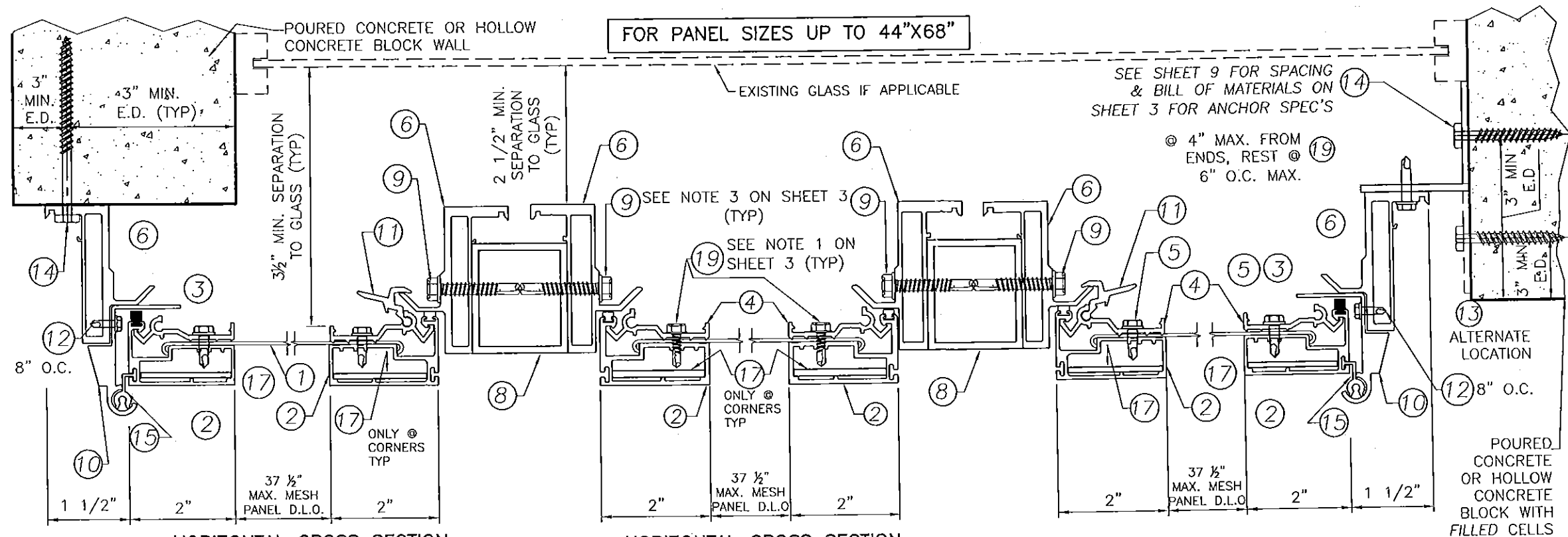
REV. No	DESCRIPTION	DATE
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2	RENEWAL AS PER FCB 2014	4-22-15
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SCALE: AS SHOWN  
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F.B.C.  
(High Velocity Hurricane Zone)  
DWG No: SG04-2012  
SHEET 6 OF 10



**V.M. Engineering, Inc.**  
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11278 S.W. 153rd Place  
MIAMI, FLORIDA 33196  
TEL: 786-281-6968  
TEL: 305-383-5896

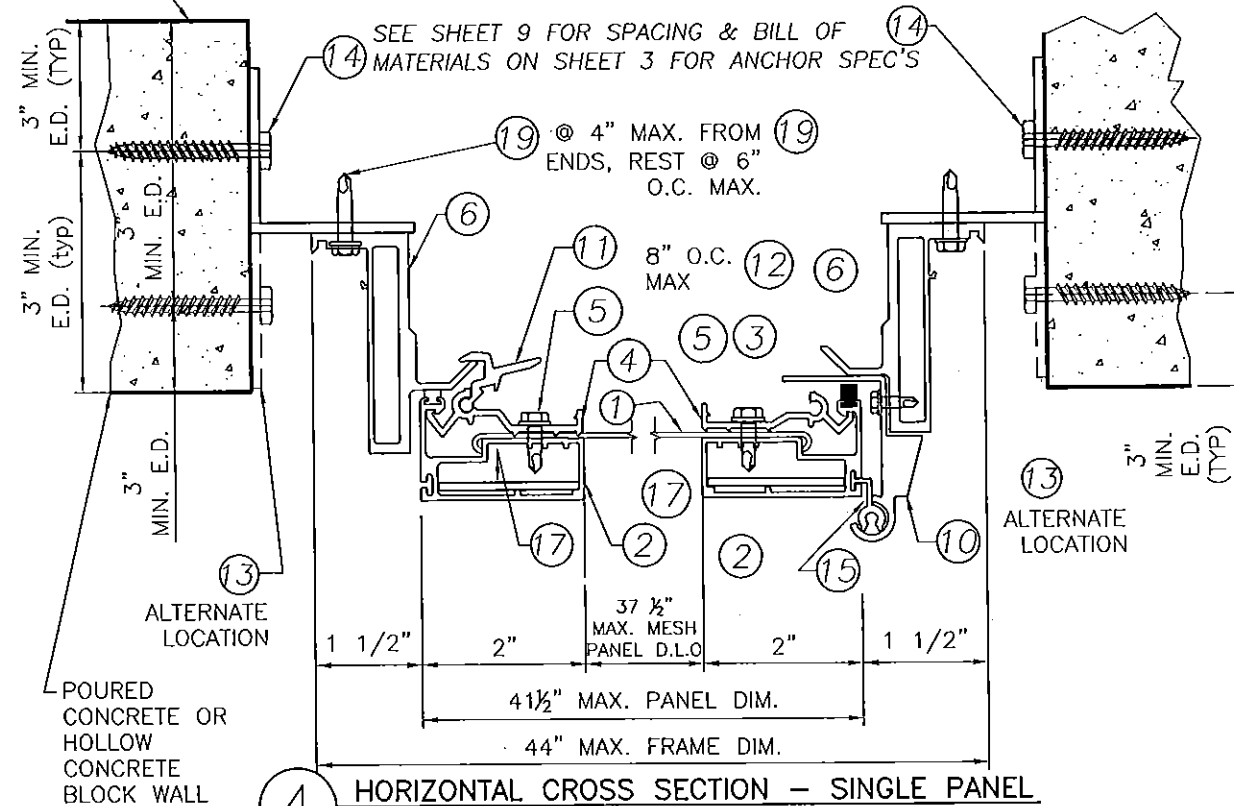
**PHOENIX**  
ARCHITECTURAL PRODUCTS, INC.  
HURRICANE BARRIERS, ALUMINUM WINDOWS & DOORS  
3075 JONQUIL Drive, S.E., Smyrna, GA 30080  
TEL 770.803.6380 FAX 770.803.6388  
www.phoenixwindows.com  
PRODUCT: SURE GUARD 2004 WINDOW SECURITY BARRIER SYSTEM



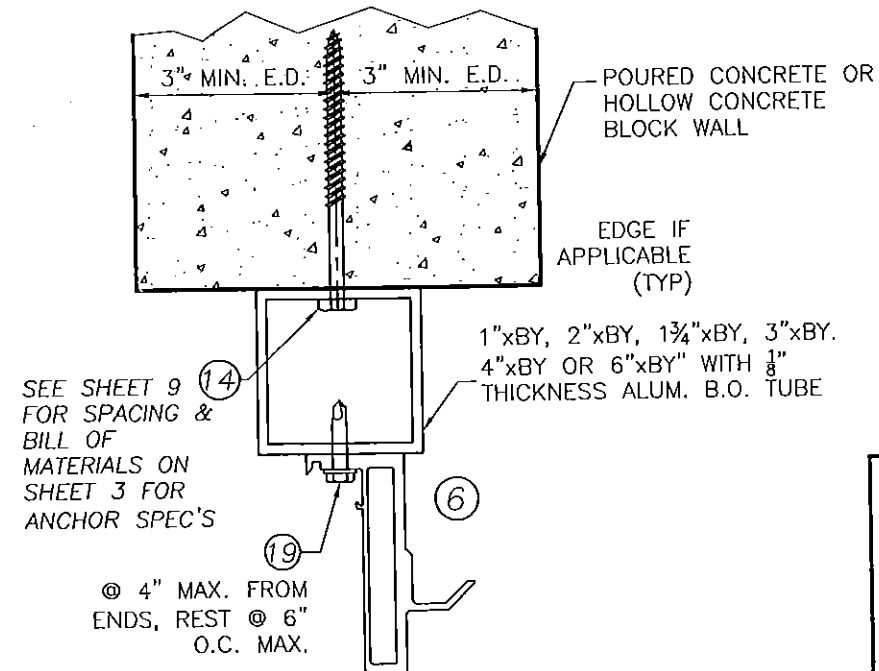
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MULTIPLE/SINGLE PANELS  
Side/Top Hinge - Wall Mounted

2 HORIZONTAL CROSS SECTION  
MULTIPLE/SINGLE PANELS  
Side/Top Hinge - Intermediate Barrier

3 HORIZONTAL CROSS SECTION  
MULTIPLE/SINGLE PANELS  
Side/Top Hinge - Trapped Barrier



4 HORIZONTAL CROSS SECTION - SINGLE PANEL  
Side/Top Hinge - Trapped Barrier



5 HORIZONTAL CROSS SECTION  
Optional Buildout Mount Method  
Side/Top Hinge

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By *H. A. A.*  
Miami Dade Product Control

MIAMI-DADE COUNTY

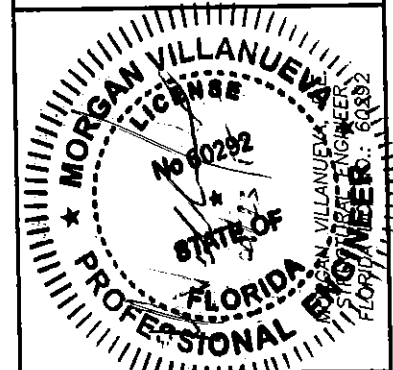
**PHOENIX**  
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PRODUCT:  
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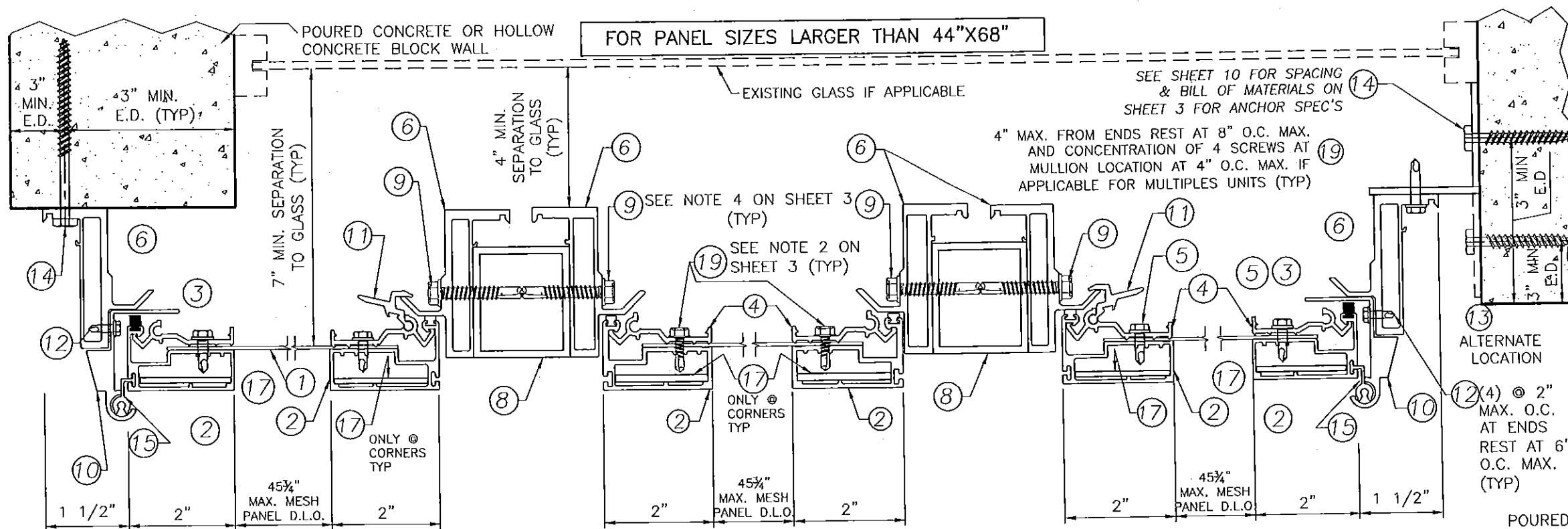
REV. No	DESCRIPTION	DATE
1	52.25"x75.75" NEW FRAME SIZE	10-5-12
2	RENEWAL AS PER FCB 2014	4-22-15
3		

SCALE: AS SHOWN  
DATE: 04-22-15

**F.B.C.**  
(High Velocity Hurricane Zone)

DWG No: **SG04-2012**

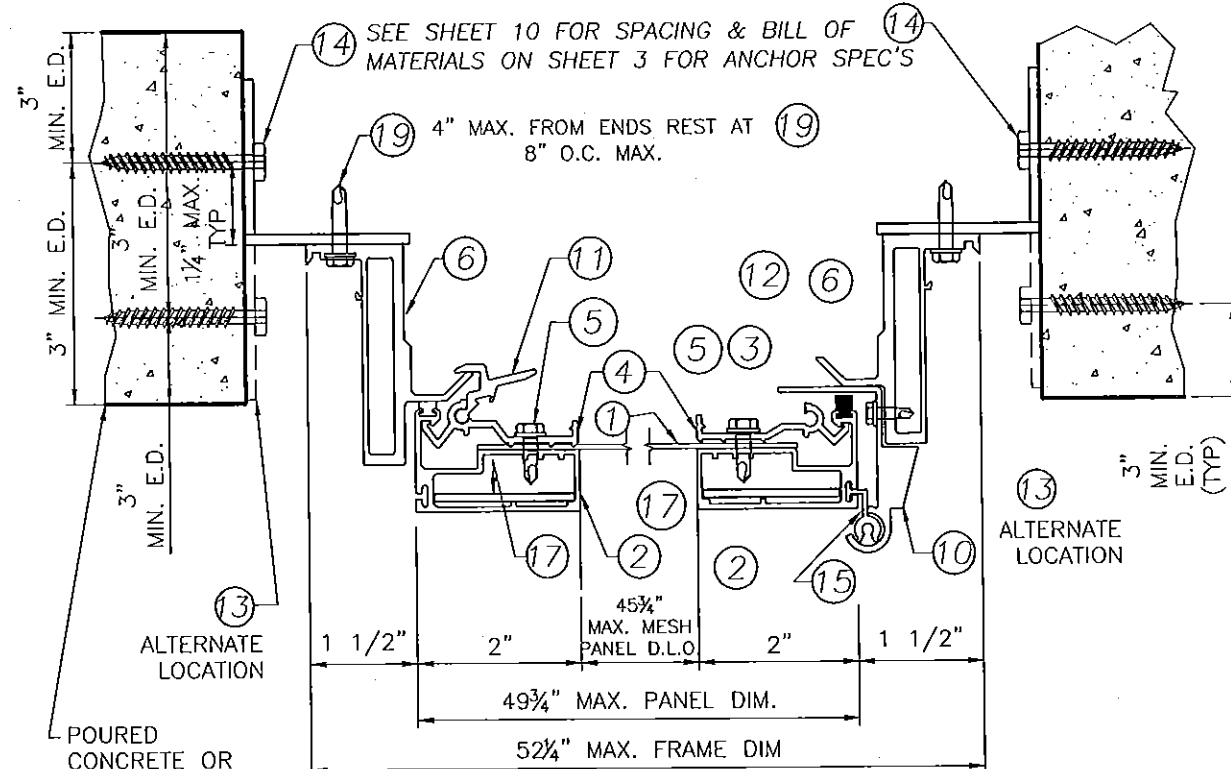
SHEET 7 OF 10



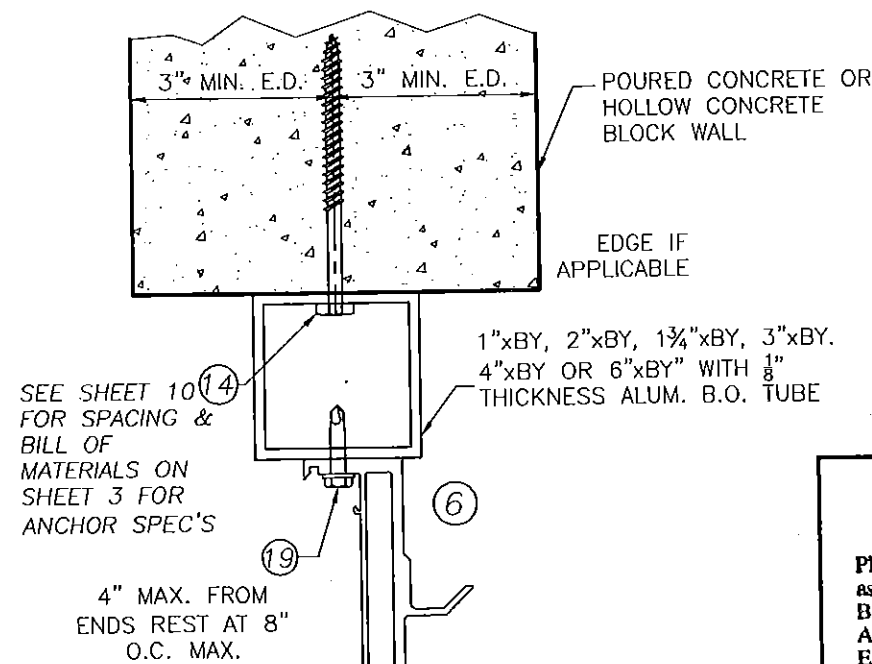
1 HORIZONTAL CROSS SECTION  
MULTIPLE/SINGLE PANELS  
Side/Top Hinge - Wall Mounted

2 HORIZONTAL CROSS SECTION  
MULTIPLE/SINGLE PANELS  
Side/Top Hinge - Intermediate Barrier

3 HORIZONTAL CROSS SECTION  
MULTIPLE/SINGLE PANELS  
Side/Top Hinge - Trapped Barrier



4 HORIZONTAL CROSS SECTION - SINGLE PANEL  
Side/Top Hinge - Trapped Barrier



5 HORIZONTAL CROSS SECTION  
Optional Buildout Mount Method  
Side/Top Hinge

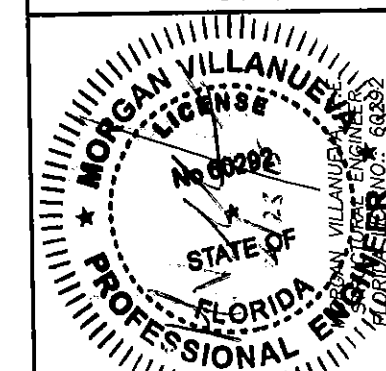
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Miami Dade Product Control

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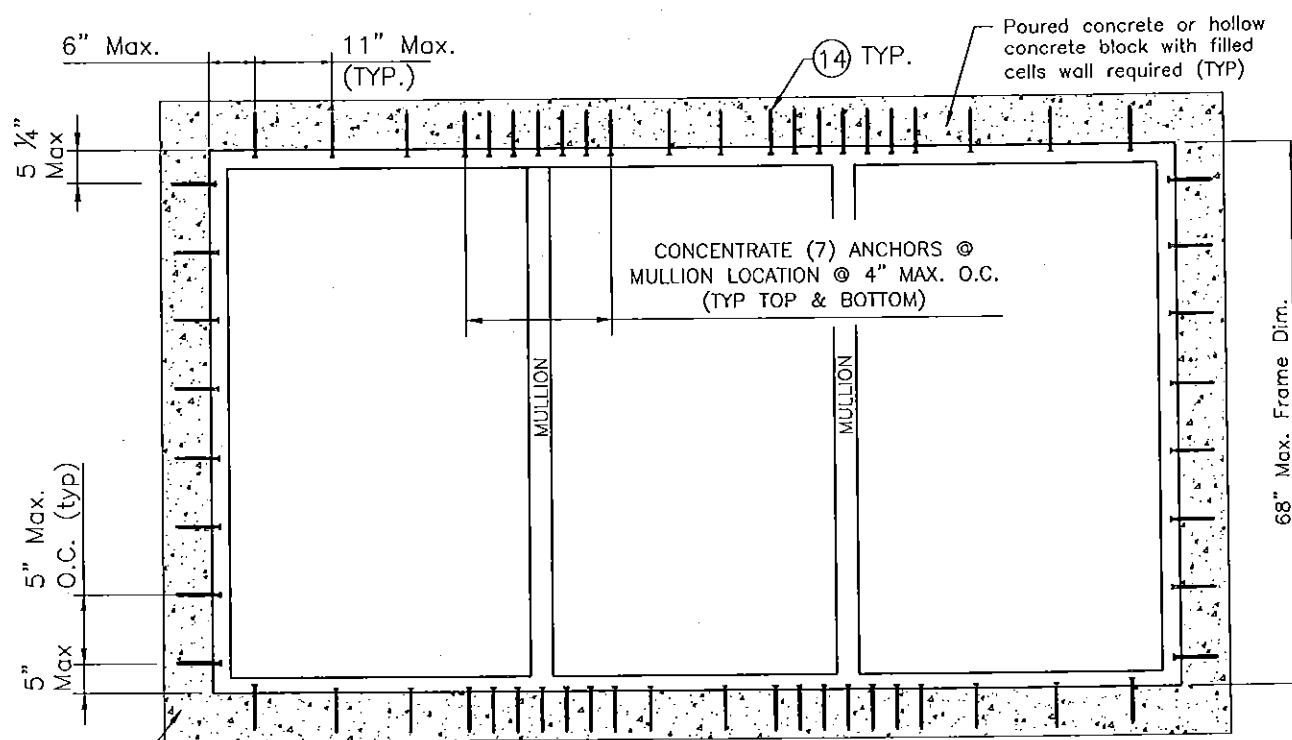
PRODUCT:  
**SURE GUARD 2004**  
WINDOW SECURITY BARRIER SYSTEM

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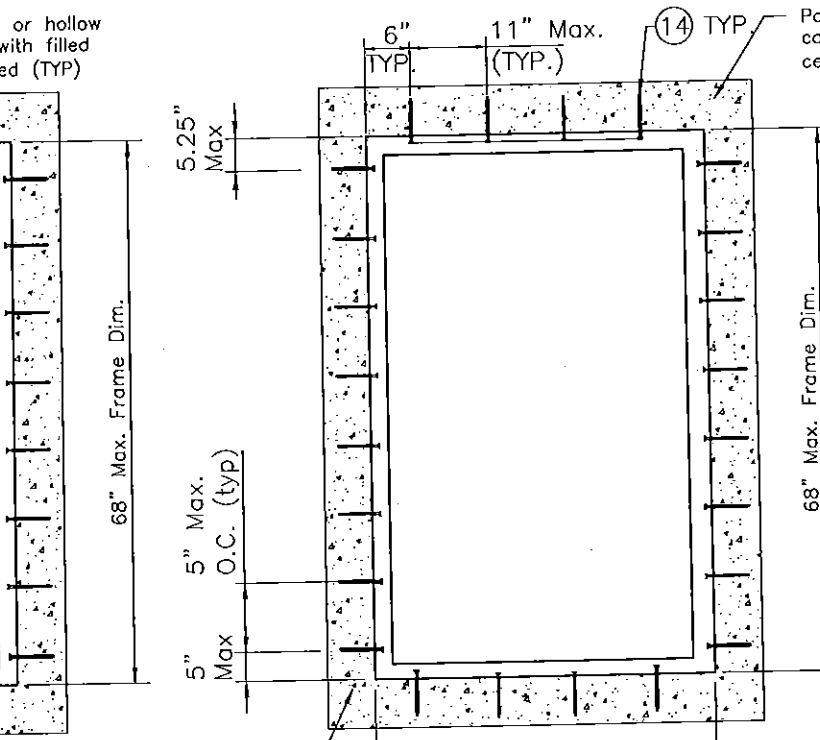
REV. No	DESCRIPTION	DATE
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SCALE: AS SHOWN  
DATE: 04-22-15  
**F.B.C.**  
(High Velocity Hurricane Zone)  
DWG No: **SG04-2012**  
SHEET **8 OF 10**

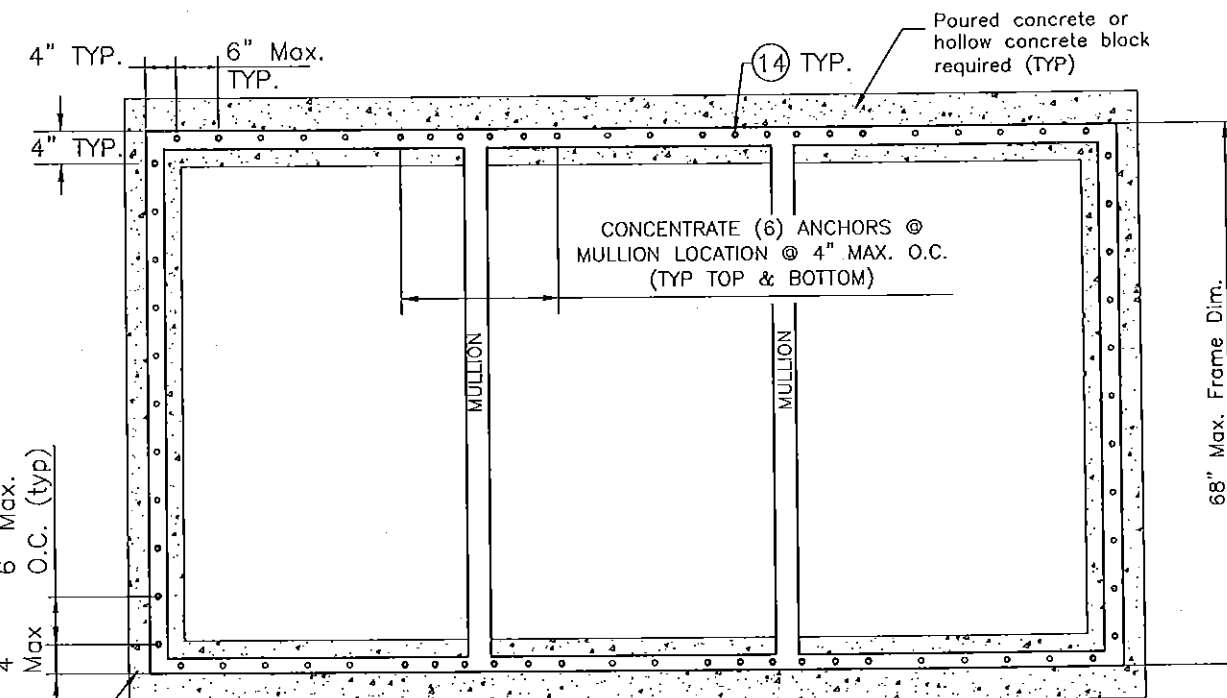


**MULTIPLE PANELS (UNLIMITED)**

**ANCHORAGE FOR INSIDE MOUNTINGS**

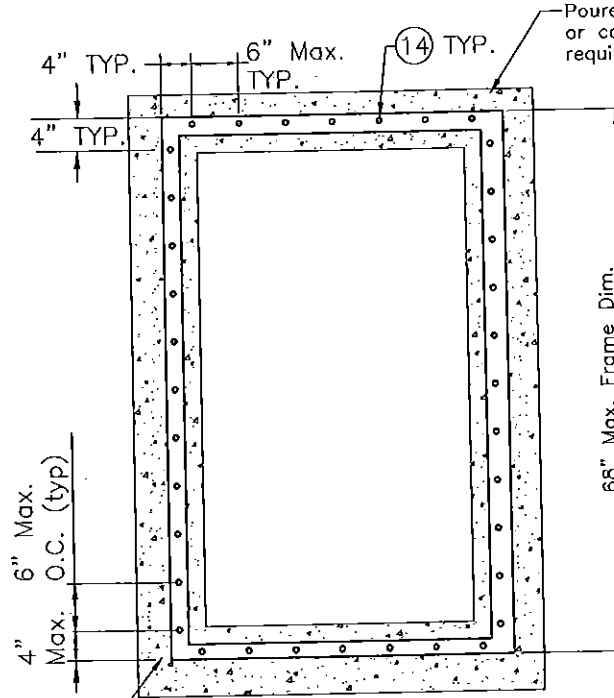


**SINGLE PANEL**



**MULTIPLE PANELS (UNLIMITED)**

**ANCHORAGE FOR SURFACE MOUNTINGS**

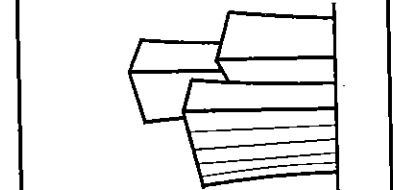


**SINGLE PANEL**

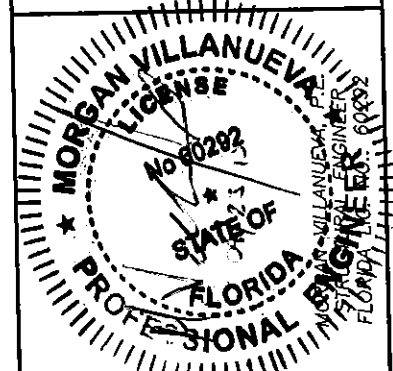
FOR FRAME SIZE  
UP TO 44"X68"

PRODUCT REVISED  
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Expiration Date 06/10/2019  
By *Heidi A. Miller*  
Miami Dade Product Control

MIAMI-DADE COUNTY



**V.M. Engineering, Inc.**  
C. of A. No. 27633  
111278 S.W. 153rd Place  
MIAMI, FLORIDA 33196  
TEL: 786-281-6968  
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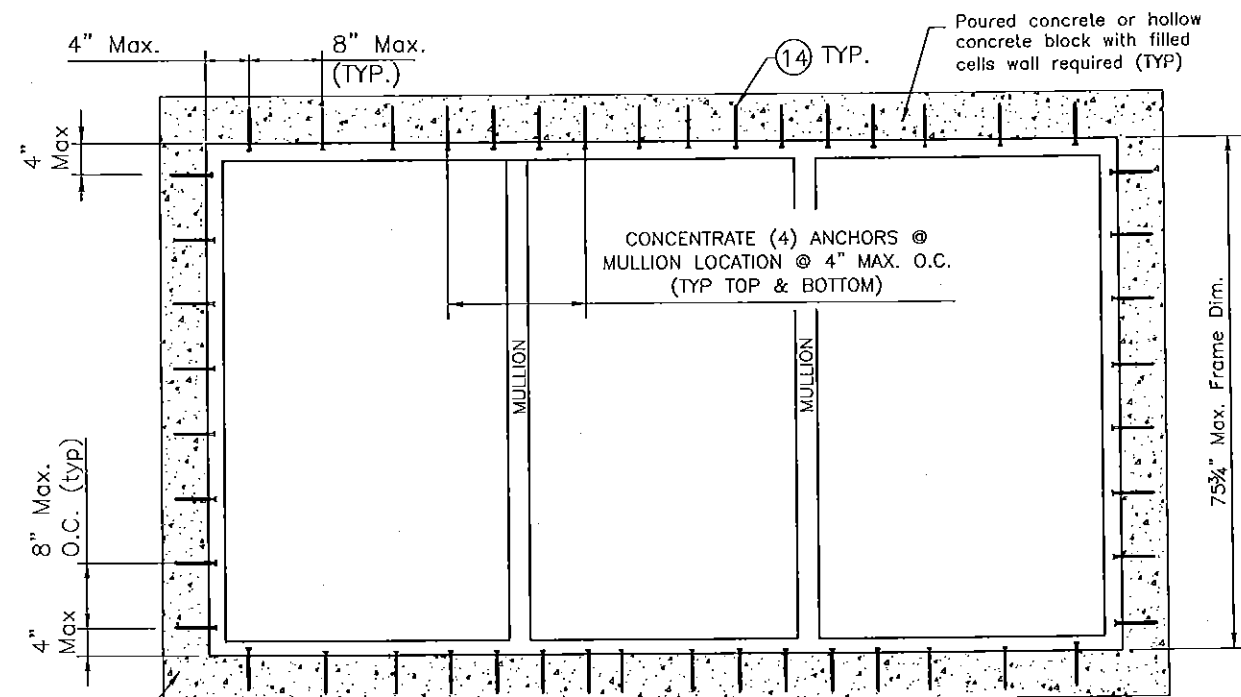
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(High Velocity Hurricane Zone)  
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SHEET 9 OF 10



**PHOENIX ARCHITECTURAL PRODUCTS, INC.**  
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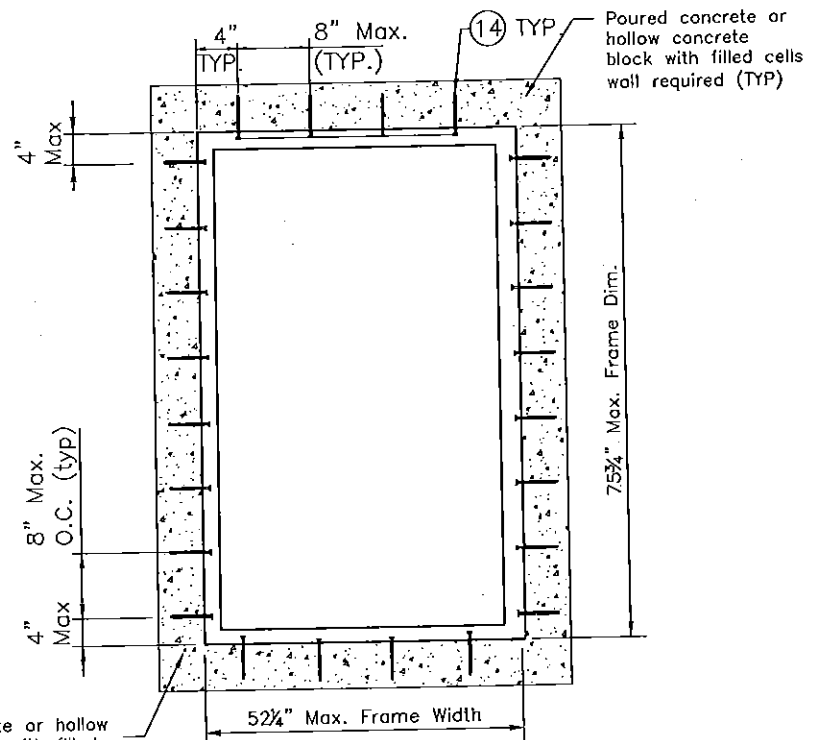
PRODUCT:

**SURE GUARD 2004**  
WINDOW SECURITY BARRIER SYSTEM

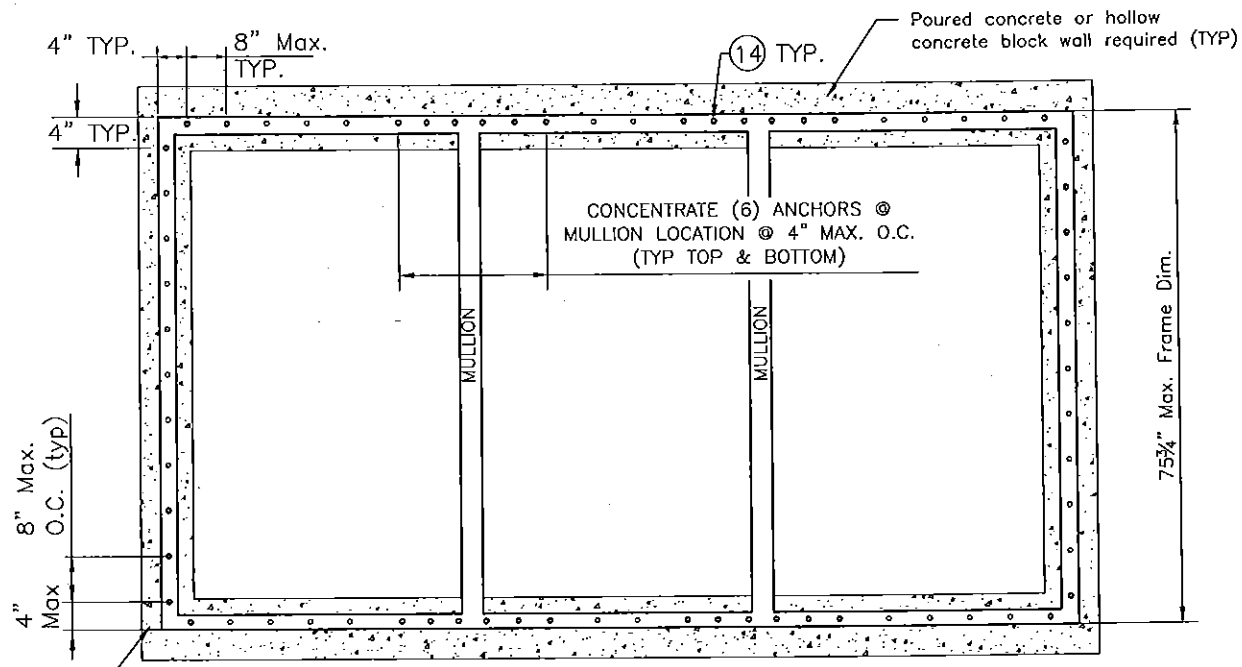


**MULTIPLE PANELS (UNLIMITED)**

**ANCHORAGE FOR INSIDE MOUNTINGS**

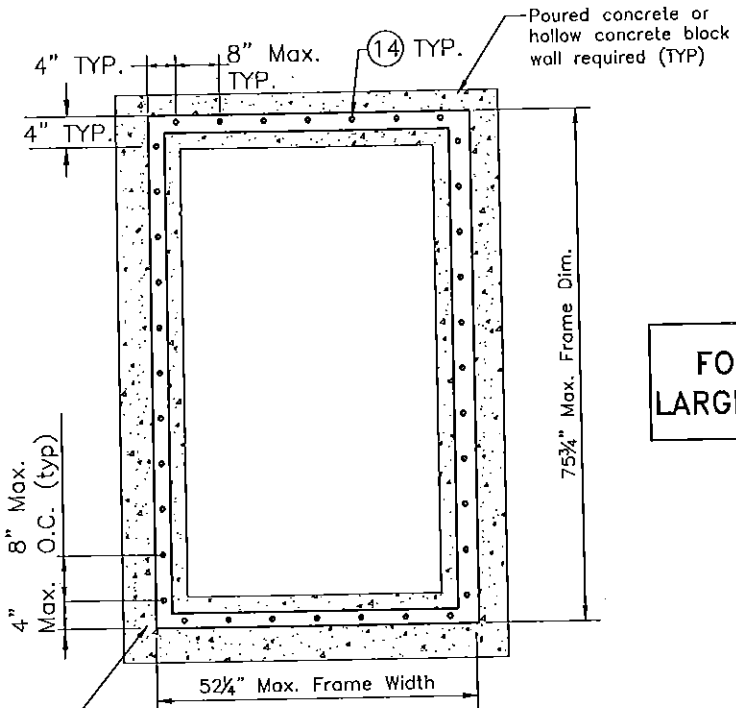


**SINGLE PANEL**



**MULTIPLE PANELS (UNLIMITED)**

**ANCHORAGE FOR SURFACE MOUNTINGS**



**SINGLE PANEL**

FOR FRAME SIZES  
LARGER THAN 44"X68"

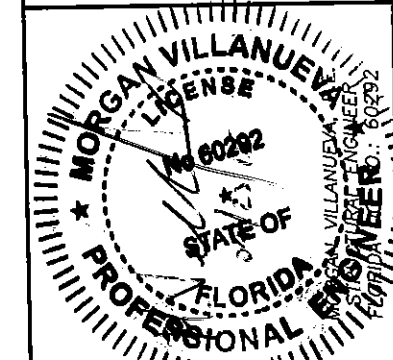
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SHEET 10 OF 10